

L1 ANSWER 4 OF 4 MEDLINE
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 TITLE: The production of differentiation autoinducing activity by WEHI-3B D+ leukemia cells.
 AUTHOR: Kajigaya Y; Ikuta K; Sasaki H; Funabiki T; Koiso Y; Matsuyama S
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AB We studied the differentiation autoinducing activity in WEHI-3B D+ cell-conditioned medium (WCM). After culturing 10(6)/ml WEHI-3B D+ cells in RPMI-1640 medium without fetal calf serum (FCS) for 4 days, the supernatant was collected. The medium, concentrated 50-fold by YM-5 membrane filtration, was fractionated by gel exclusion on Ultrogel AcA44. We evaluated the effect of each of the four fractions on differentiation in WEHI-3B D+ cells by morphological, functional, and cytochemical criteria after adding the fractions to liquid or soft-agar cultures of 10(3) cells in 1 ml RPMI-1640 medium containing 10% FCS; the experimental cultures contained 10% of the fractions, with a control for each without the fraction. The growth of WEHI-3B D- cells in culture was inhibited by the addition of fraction P only (mol. wt. 10,000-20,000 daltons). In

these

same cultures, the cells were granulocyte-like, strongly positive for naphthol ASD chloroacetate esterase, and had phagocytic activity.

Colonies

grown in agar culture with fraction P also exhibited a peripheral halo of loosely dispersed cells around a central aggregate. Fraction P contained neither granulocyte colony-stimulating activity nor burst-promoting activity. These results suggest that fraction P contains differentiation autoinducing factor that is different from granulocyte colony-stimulating factor or interleukin 3.

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TITLE: Synthesis of mouse **hemoglobin** and
globin mRNA in leukemic cell
cultures

AUTHOR(S): Ostertag, W.; Melderis, H.; Steinheider, G.; Kluge,
N.; Dube, S.

CORPORATE SOURCE: Max-Planck-Inst. Exp. Med., Goettingen, Fed. Rep.
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SOURCE: Nature (London), New Biology (1972), 239(95), 231-4
CODEN: NNBYA7; ISSN: 0369-4887

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AB Friend virus-infected leukemic spleen cells, if maintained under tissue culture conditions, differentiated into **erythroblasts** that incorporated Fe and synthesized heme. Addn. of Me₂SO to these culture cells stimulated differentiation along the **erythrocytic** line much further and increased prodn. of Hb. The Hb synthesized by these cells was 25% of the labeled sol. cytoplasmic protein and was composed of adult globin .alpha.- and .beta.-chains. There was a correspondence between Hb prodn. and the appearance of a new species of 9 S RNA, presumably globin messenger RNA.